

ABSTRACT OF THE DISCLOSURE

Aut *Ab* A method for illuminating an object (79) is disclosed, which is characterized by the steps of injecting (1) the light beam (13) from a laser (9) into a microstructured optical element (19), which spectrally broadens the light of the light beam (13), shaping (3) the spectrally broadened light (31) to form an illumination light beam (29), and directing (5) the illumination light beam (29) onto the object (79). An instrument (7) for illuminating an object (79) is furthermore disclosed, which comprises a laser (9) that emits a light beam (13), which is directed onto a microstructured optical element (19) that spectrally broadens the light from the laser. A optical means (33) which shapes the spectrally broadened light (31) to form an illumination light beam (29) is arranged downstream of the microstructured optical element (19).

Fig. 1